



Innovative Photonic Solutions

NEMA 12 Industrial Fiberoptic Lightsource

KEY FEATURES

- **Factory Floor Reliability**
- **Full NEMA 12 Rating**
- **Air-to-Air Heat Exchanger**
 - No intrusion of factory air
 - No compressed air required
 - No water lines or chillers
 - *Plug it in and Go!*
- **Contamination Resistant**
 - Dirt & Dust
 - Debris & Particulates
 - Oil Vapor
 - Non-Corrosive Vapors
- **Ultra Stable Light Output**
- **Rugged, Proven Performance**
- **Available in NEMA 4/4X**



APPLICATIONS

- **Automotive Factories**
- **Machining or Fabrication**
- **Glass Container Production**
- **Web, Sheet & Rolling Mills**
 - Steel, Aluminum, Metals
 - Plastics & Glass
 - Textiles & Wood
- **Liquid/Consumer Packaging**
- **Food & Pharmaceuticals**

Ultra Stability

DC Regulation combined with the proprietary *Light-Lock™* light feedback system provide the most stable light intensity and spectral output in the industry - over the entire life of the 150 watt tungsten halogen lamp. An absolute must for ensuring robust and reliable performance from industrial machine vision sensors and systems.

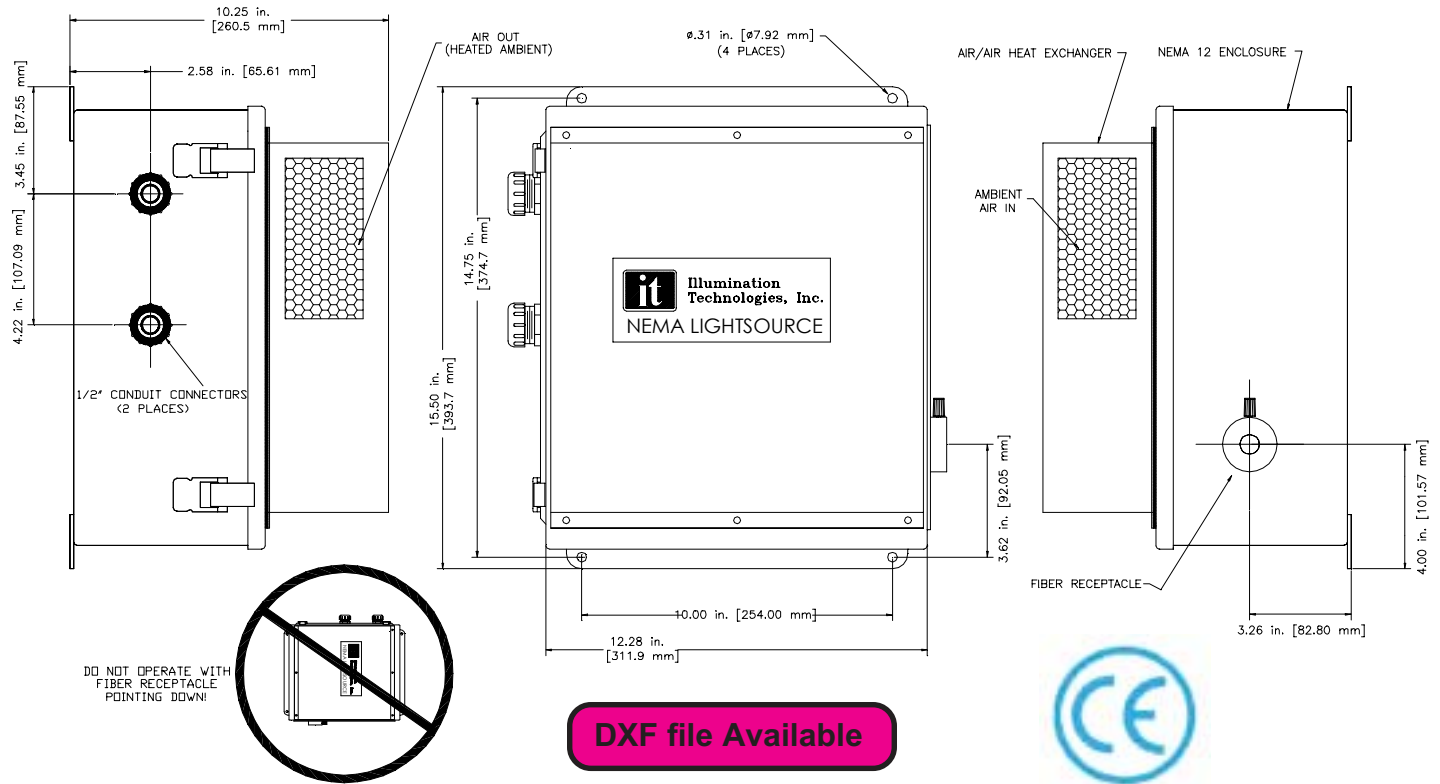
Easy to Operate

Just plug it in and go! No compressed air to hook up and filter. No coolant lines to run; no chillers to break down. Specialty engineered air-to-air heat exchanger ensures that the factory air is completely isolated from all internal optical and electronic elements, eliminating premature failure and ensuring robust, reliable performance.

Easy to Maintain

Low maintenance design and internal self-diagnostics circuitry keeps downtime to a minimum. Host is alerted of any potential problems via the RS-232/485 serial communications interface. As with all the *Smart-Lite™* family of lightsources, the 3900-N12 accepts all standard accessories, color filters, lamp options, and our entire line of standard and customized fiberoptic light delivery components.

Enclosure Detail Drawing



Technical Specifications

Physical

Height: 10.25" (260mm)
 Width: 14.13" (360mm)
 Length: 15.50" (395mm)
 Weight: 38.0lbs (17.3kg)

Output Stability

Regulation: 0.1% (Photometric)
 Noise: 0.1% (Photometric)
 Long-term: 1.0% (Photometric)

Control

Manual: Internal Pot
 Analog: 0-5 VDC (Linear)
 Serial: RS-232 or RS-485
 SS Relay: Analog & Serial

Electrical

Input: 100/120/220/240 (selectable)
 50/60Hz
 Input Power: 100/120V 290W
 220/240V 360W
 Inrush Current: 100/120V 3.6A
 220/240V 2.6A
 Overvoltage: Category II

Regulation Scheme

Short-term: Linear DC Regulator
 Long-term: Optical Light Feedback

Diagnostics

Lamp Out: Analog & Serial
 Over Temp: Analog & Serial

Environmental

Temperature: 0 to 40C
 Relative Humidity: 0 to 95%
 Altitude Rating: 2000m (max)
 Pollution Rating: Pollution Degree 2

Lamp

Visible: EKE (Ushio)
 High Color: EKE-HC (Ushio)
 Extended Range: EKE-ER (IT)
 NIR: EKE-IR (IT)

Proudly Distributed By:



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